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*North America's Leader in Hazardous Material Information Management*  
*1905 Aston Avenue, Carlsbad, CA 92008*  
*Phone (800) 451-8346 Fax (760) 602-8888*

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## MSDS PRODUCT INFORMATION

Date: 10/07/2005  
To: MSDS Requester  
From: 3E Company  
Subject: The MSDS you have requested

☒ MSDS NOT REQUIRED

In response to your request for a Material Safety Data Sheet, according to the OSHA Hazard Communication Standard (Right-to-Know), the following item is an article. Articles are defined in 29 CFR 1910.1200(c). Products such as Drugs, cosmetics, food, or alcoholic beverages, wood or wood products, and tobacco or tobacco products, as defined in 29 CFR 1910.1200(b)(6), are exempt from the Hazard Communication Standard. Items that are considered articles, as defined in 29 CFR 1910.1200(c), are also exempt from this Standard. Therefore, the manufacturer is not required to provide an MSDS for this product.

☐ MSDS DISCONTINUED PRODUCT

In response to your request for a Material Safety Data Sheet, the manufacturer has discontinued the product listed below. The MSDS Attached is the most current version, or an MSDS is no longer available.

☐ MSDS BEST COPY AVAILABLE

The MSDS attached is the best copy available from the manufacturer.

☐ MANUFACTURER NO LONGER IN BUSINESS

In response to your request for a Material Safety Data Sheet, a current MSDS could not be obtained for this product. It has been determined that the manufacturer listed below is no longer in business. A current address and phone number could not be located.

Manufacturer: Ryobi America Corp  
Product Name: Nickel Cadmium Battery

RYOBI AMERICA CORP.  
ANDERSON, SOUTH CAROLINA  
PHONE: 1-800-323-4615

**MATERIAL SAFETY DATA SHEET**  
**"MSDS"**

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Product Models:	BD10R	BD101AR	BD101ARK	BD1020CR	BD1020CRK
	BD1020CVR	BD1020CVRK	BD1025CR	BD1025CRK	BD1025CVR
	BD1025CVRK	BOJ15	BOS40	6402493	6402523
	TFD150VR	TFD170VR	TFD220VR	1400103	1400143
	TFD150VRK	TFD170VRK	TFD220VRK	1400123	

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Product Name:	Nickel Cadmium Battery	Type No.	_____
Trade Name:	Cadnica	Nominal Voltage	1.2V
Chemical System:	Nickel/Cadmium	Approx Weight:	10-150g
Designed for recharge:	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO	

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**SECTION 1 MANUFACTURER INFORMATION**

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SANYO ENERGY CORPORATION

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**SECTION II HAZARDOUS INGREDIENT**

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**IMPORTANT NOTE:** The battery should not be opened or incinerated since the following ingredients contained within could be harmful under some circumstances, if exposed.

<u>Material or Ingredient</u>	<u>%</u>	<u>TLV (ACGH)</u>	<u>PEL (OSHA)</u>
CADMIUM HYDROXIDE	11-26	NONE ESTABLISHED	NONE ESTABLISHED
NICKEL HYDROXIDE	5-12	NONE ESTABLISHED	NONE ESTABLISHED
NICKEL POWDER	8-17	NONE ESTABLISHED	NONE ESTABLISHED
POTASSIUM HYDROXIDE	<3	NONE ESTABLISHED	NONE ESTABLISHED
LITHIUM HYDROXIDE	<.2	NONE ESTABLISHED	NONE ESTABLISHED

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**SECTION III FIRE AND EXPLOSION HAZARD**

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In case of fire in adjacent area, it is permissible to use any class of extinguishing medium on these batteries or their packing material. See also Section V, Precautions for Safe Handling and Use.

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**SECTION IV**                      **HEALTH HAZARD DATA**

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**EFFECTS OF SINGLE OVEREXPOSURE:**

**Swallowing:**        If the battery should open in a digestive tract, the electrolyte may cause localized burns. Contents include cadmium compounds which may cause salivation, choking, nausea, persistent vomiting, diarrhea, abdominal pain, dizziness, faintness, unconsciousness and possible liver and kidney injury.

**Skin Absorbtion:**    No evidence of adverse effects from available information

**Inhalation:**        Dust or particles from contents may cause respiratory irritation, headache, nausea and vomiting.

**Skin Contact:**      Contents from an opened battery may cause chemical burns.

**Eye Contact:**       Contents from an opened battery may cause severe irritation and chemical burns.

**Effects of Repeated Overexposure:**

Nickel powder and contents including cadmium compounds are known to cause cancer in humans. A recent laboratory experiment has shown reproductive toxicity of cadmium.

**Other effects of Exposure to Contents:**

The National Institute of Industrial Health reported the dose-effect on rhesus monkey: decrease in weight, body height, erythrocyte counts and circulatory defects (high blood pressure) renal defects (positive sugar in the urine with elevated urine protein concentration, liver defects, etc.

**Medical Conditions Aggravated by Overexposure:**

A knowledge of the available toxicology information and of the physical and chemical properties of the material suggests that overexposure is unlikely to aggravate existing medical conditions.

**Emergency and First Aid Procedure:**

**Swallowing:**        Do not induce vomiting. Seek medical attention immediately.

**Skin Contact:**      If the contents from an opened battery come in contact with the skin, wash with soap and water. If irritation persists or contact has been prolonged, call a physician.

**Inhalation:**        Remove to fresh air.

**Eye Contact:**       If the contents from an opened battery come in contact with the eyes, immediately flush eyes thoroughly with water and continue flushing for at least 15 minutes. Seek medical attention.

MATERIAL SAFETY DATA SHEET  
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SECTION V PRECAUTIONS FOR SAFE HANDLING AND USE

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- Storage:** Store in a cool place, but prevent condensation on cell or battery terminals. Elevated temperatures can result in shortened battery life. Storage temperature -30 to +35°C.
- Mechanical Containment:** If there are special encapsulation or sealing requirements, consult your Sanyo Energy Corp. representative about possible cell hazard precautions or limitations.
- Handling:** Accidental short circuit will bring high temperature elevation to the battery as well as shorten the battery life. Be sure to avoid prolonged short circuit since the heat can burn the attendants skin and even rupture. Batteries packaged in bulk containers should not be jumbled. Metal covered tables or belts used for assembly of batteries into devices can be the source of short circuits. Apply insulating material to the assembly work surface.  
If soldering or welding to the case of the battery is required, consult your Sanyo Energy Corp. representative for proper precautions to prevent seal damage or external short circuit.
- Charging:** This battery is designed for recharging. A loss of voltage and capacity of batteries due to self-discharge during prolonged storage is unavoidable. Charge battery before use. Observe the specified charge rate since higher rates can cause a rise in internal gas pressure which may result in damaging heat generation or cell rupture and/or venting.
- Labeling:** If normal label warnings are not visible, it is important to provide a device label stating:  
CAUTION: Do not dispose in fire, mix with other battery types, charge above specified rate, connect adversely or short circuit which may explode, leak or create heat causing personal injury.
- Disposal:** DO NOT INCINERATE or subject cells to temperatures in excess of 100°C (212°F). Such treatment can vaporize the liquid electrolyte and cause cell rupture.

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SECTION VI SPECIAL PROTECTION INFORMATION

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- Ventilation Requirements:** Not required under conditions of normal use.
- Respiratory Protection:** Not required under conditions of normal use.
- Eye Protection:** Not required under conditions of normal use.
- Gloves:** Not required under conditions of normal use.

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THE INFORMATION AND RECOMMENDATIONS HEREIN SET FORTH ARE MADE IN GOOD FAITH AND BELIEVED TO BE ACCURATE AS OF THE DATE OF PREPARATION. SANYO ENERGY CORP MAKES NO WARRANTY, EXPRESS OR IMPLIED, WITH RESPECT TO THIS INFORMATION AND DISCLAIMS ALL LIABILITIES FROM RELIANCE ON IT.

# **RYOBI**

**RYOBI AMERICA CORPORATION**

CORPORATE OFFICE

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ANDERSON, SC 29622-1207

TELEPHONE: (803) 226-6511 FAX: (803) 261-9435

April 10, 1995

**Dear Distributor:**

While it is the opinion of Ryobi America Corp. that our products do not require Notice pertinent to California Proposition 65, we have joined other members of our Industry as partners in joint settlement negotiations with the State of California and will comply with all requirements of the settlement agreement expected to result from these negotiations, including any and all required warnings.

The warning proposed by the State of California is detailed on the attached MSDS.



**Wayne Hill**

**Manager**

**Product Safety**